

**PAT-NO:** JP402024284A  
**DOCUMENT-IDENTIFIER:** JP 02024284 A  
**TITLE:** MOTORCYCLE HAVING ENGINE WITH SUPERCHARGER  
**PUBN-DATE:** January 26, 1990

**INVENTOR-INFORMATION:**

**NAME** **COUNTRY**  
NONOGAKI, YOSHIAKI

**ASSIGNEE-INFORMATION:**

**NAME** **COUNTRY**  
YAMAHA MOTOR CO LTD N/A

**APPL-NO:** JP63172324

**APPL-DATE:** July 11, 1988

**INT-CL (IPC):** B62J039/00 , B62M007/02 , F01P003/18 , F02B029/04 , F02B033/44

**US-CL-CURRENT:** 123/559.1

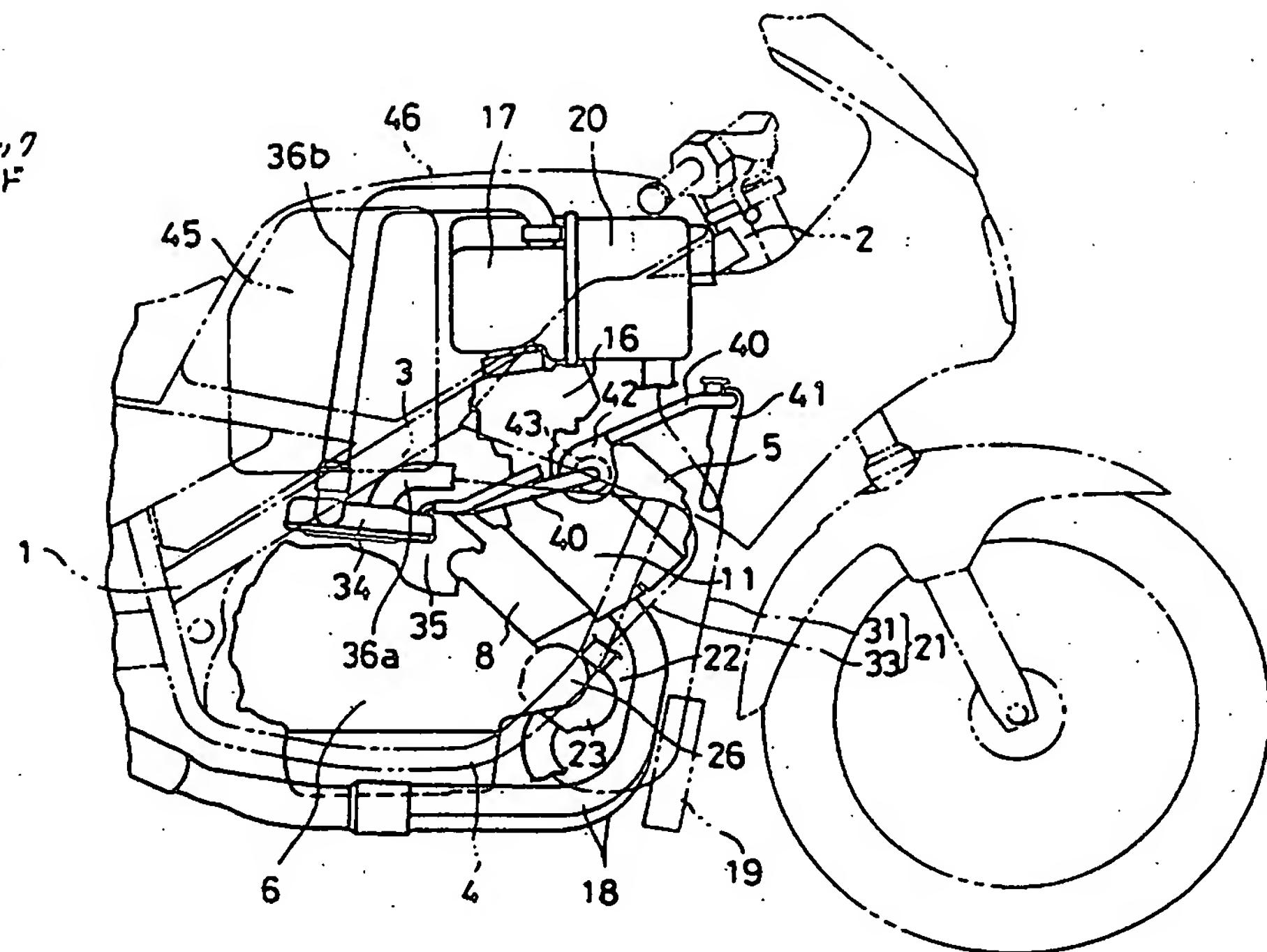
**ABSTRACT:**

**PURPOSE:** To centralize mass by placing a carburetor and an air cleaner being arranged up and down on the upper portion of a cylinder head, providing a supercharger on the intake pipe line thereof while providing an intercooler on the lower course side thereof, and placing same on a crankcase.

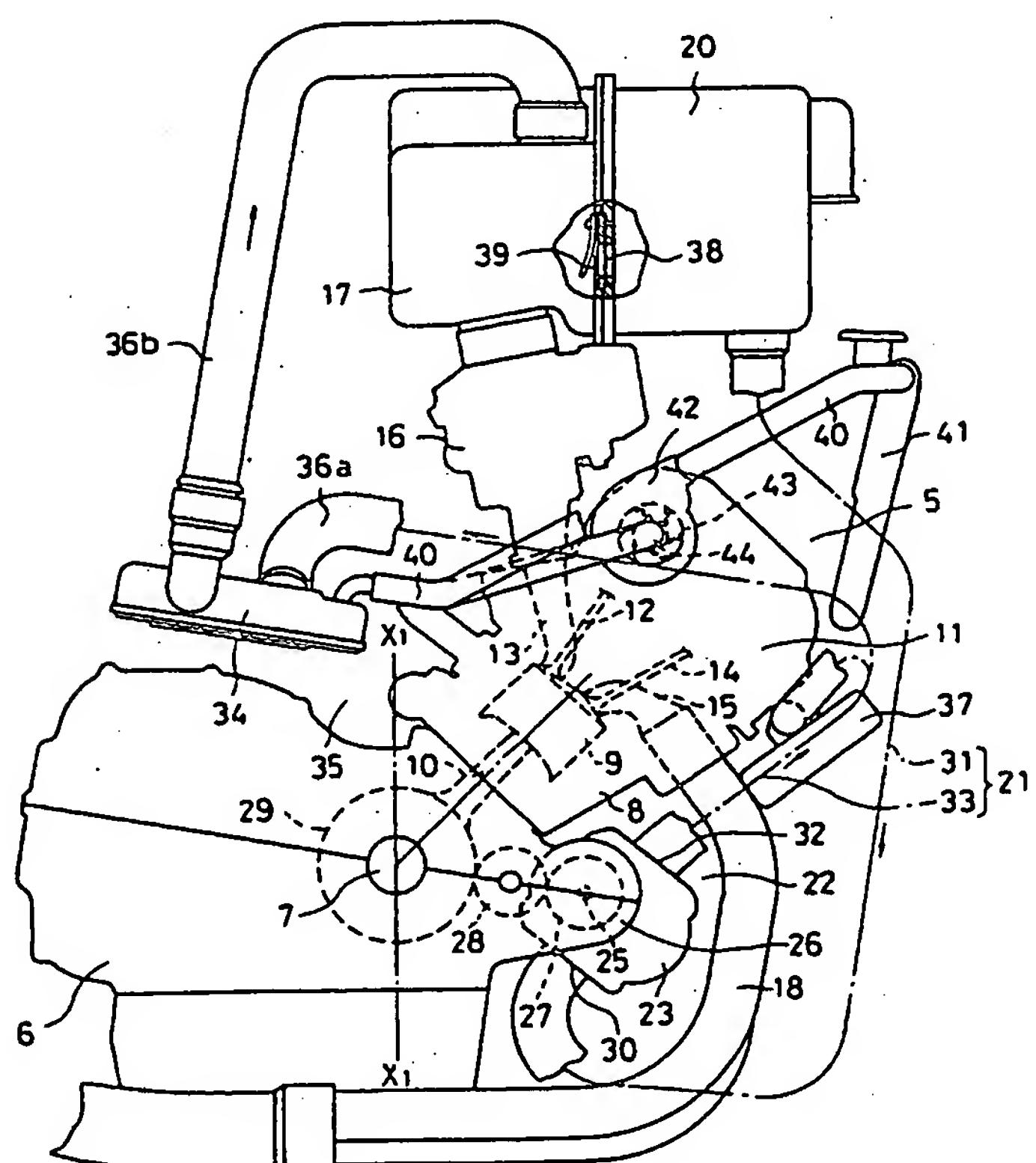
**CONSTITUTION:** Since a carburetor 16 connected to a cylinder head 11 and an air cleaner 20 are placed on the upper portion of the cylinder head 11, a large space can be ensured above a crankcase 6 adjacent to the backside of the cylinder head 11 and a cylinder block 8, enabling an intercooler 34 to be naturally placed in a space provided above this crankcase 6. Therefore, the water-cooled intercooler 34 having a relatively large weight can be positioned nearly in the vicinity of the center, to enable the position of the center of gravity of a vehicle body to be placed closer to the center, improving drivability and stability.

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5 … エンジン  
 6 … クランクケース  
 8 … シリンダーブロック  
 11 … シリンダーヘッド  
 16 … 気化器  
 20 … エアクリーナー  
 21 … 吸気管路  
 22 … 過給機  
 34 … インタークーラー  
 35 … 空間



第 1 題



第 2 四